CENTRAL FAX CENTER

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NO. 8064

Application No.: 10/816,421 Docket No.: AD6920USNA

AMENDMENTS TO THE CLAIMS

- 1. (Withdrawn) A painted polyacetal article comprising:
 - a polyacetal substrate comprising 90 99,5wt% polyacetal and 0.5 10wt% of semicrystalline or amorphous thermoplastic non-polyacetal resin of molecular weight 1,000 - 50,000; and
 - a paint applied to the polyacetal substrate from a solvent-borne, water-borne or powder 1K paint system onto a surface of the polyacetal substrate pretreated to enhance exposure of said semicrystalline or amorphous thermoplastic non-polyacetal resin of the substrate to the applied paint;

said paint being a thermoplastic or partly thermoplastic paint.

- 2. (Withdrawn) The painted polyacetal article of claim 1, wherein the substrate comprises 95 - 98.5wt% polyacetal and 1.5 - 5wt% of the semicrystalline or amorphous thermoplastic non-polyacetal resin
- 3. (Withdrawn) The painted polyacetal article of claim 1, wherein the semicrystalline or amorphous thermoplastic non-polyacetal resin has a nitrogen group, an OH group, or an acrylate, or methacrylate functionality.
- 4. (Withdrawn) The painted polyacetal article of claim 3, wherein the semicrystalline or amorphous thermoplastic non-polyacetal resin comprises at least one amide.
- 5. (Withdrawn) The painted polyacetal article of claim 4, wherein the semicrystalline or amorphous thermoplastic non-polyacetal resin comprises a blend of first and second polyamides of different molecular weights.
- 6. (Withdrawn) The painted polyacetal article of claim 5, wherein the first polyamide has a molecular weight which is at least 5000 greater than that of the second polyamide, the first polyamide having a molecular weight in the range 20,000 to 50,000 and being present in an amount in the range 0.5 - 5wt%, and the second polyamide having a molecular weight in the range 1,000 to 25,000 and being present in an amount equal to or less than the first polyamide and in the range 0.1 - 2.5wt%.

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- 7. (Withdrawn) The painted polyacetal article of claim 6, wherein the first polyamide is present in an amount 1 2wt% and the second polyamide is present in an amount 0.25 1.5wt%.
- 8. (Withdrawn) The painted polyacetal article of claim 1, wherein the paint system contains a thermoplastic polymer with a glass transition temperature below 25°C.
- 9. (Withdrawn) The painted polyacetal article of claim 1, wherein the applied thermoplastic or partly thermoplastic paint is covered with a layer of thermoset paint or varnish.
- 10. (Currently amended) A process of producing a painted polyacetal article, comprising:
 - providing a polyacetal substrate produced by solidifying a molten blend comprising 90 99.5wt% polyacetal and 0.5 10wt% of semicrystalline or amorphous thermoplastic non-polyacetal resin;

wherein said semicrystalline or amorphous thermoplastic non-polyacetal resin comprises:

a blend of first and second polyamides, each having melt viscosity at 200°C of less than 50,000 poise measured at a shear stress of 105 dynes/cm²; and

each has a melting point of less than about 180°C

and wherein the second polyamide is present in an amount equal to or less than the first polyamide in the range 0.1 - 2.5wt%;

- treating a surface of the polyacetal substrate for the application to the treated surface of a paint, to enhance exposure of said semicrystalline or amorphous thermoplastic non-polyacetal resin to an applied paint; and
- applying a thermoplastic or partly thermoplastic paint from a solvent-borne, water-borne or powder 1K paint system onto the treated surface of the polyacetal substrate.
- 11. (Original) The process of claim 10, wherein the surface of the polyacetal substrate is treated by a surface modification technique selected from etching, flaming, ionization, sanding, surface cleaning and UV exposure.

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- 12. (Original) The process of claim 11, wherein the surface of the polyacetal substrate is treated by etching from a mixed acid bath containing at least three acids from the group sulfuric acid, phosphoric acid, hydrochloric acid and an organic acid.
- 13. (Original) The process of claim 12, wherein the mixed acid bath contains sulfuric acid, phosphoric acid, hydrochloric acid and acetic acid.
- 14. (Original) The process of claim 10, wherein the polyacetal substrate is provided by molding, extrusion or thermoforming.
- 15. (Original) The process of claim 10, wherein the thermoplastic or partly thermoplastic paint is applied by dipping, spraying, brushing or powder application.
- 16. (Original) The process of claim 10, which comprises covering the applied thermoplastic or partly thermoplastic paint with a layer of thermosetting paint or varnish.
- 17. (Canceled).